

EAST BRS Search #2

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	2440	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	USPAT	OR	ON	2005/09/27 14:23
L9	87583	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	USPAT	OR	ON	2005/09/27 14:23
L10	571	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	USPAT	OR	ON	2005/09/27 14:23
L11	88716	L8 or L9 or L10	USPAT	OR	ON	2005/09/27 14:23
L12	79851	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	USPAT	OR	ON	2005/09/27 14:23
L13	1724	L11 same (test\$3 or evaluat\$3)	USPAT	OR	ON	2005/09/27 14:23
L14	134	L13 and L12	USPAT	OR	ON	2005/09/27 14:23
L15	1295	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	US-PGPUB	OR	ON	2005/09/27 14:24
L16	30073	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	US-PGPUB	OR	ON	2005/09/27 14:24

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L17	420	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	US-PGPUB	OR	ON	2005/09/27 14:24
L18	30607	L15 or L16 or L17	US-PGPUB	OR	ON	2005/09/27 14:24
L19	703	L18 same (test\$3 or evaluat\$3)	US-PGPUB	OR	ON	2005/09/27 14:24
L20	56715	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	US-PGPUB	OR	ON	2005/09/27 14:24
(L21)	77	L19 and L20	US-PGPUB	OR	ON	2005/09/27 14:24
L22	140	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	EPO	OR	ON	2005/09/27 14:25
L23	3761	(actuator\$1 or positioner\$1 or positioning or (displac\$1ment ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	EPO	OR	ON	2005/09/27 14:25
L24	46	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	EPO	OR	ON	2005/09/27 14:25
L25	3880	L22 or L23 or L24	EPO	OR	ON	2005/09/27 14:25
L26	69	L25 same (test\$3 or evaluat\$3)	EPO	OR	ON	2005/09/27 14:25
L27	124756	medium or media or disk or disc or HDD or HDA or DASD	EPO	OR	ON	2005/09/27 14:25
(L28)	3	L26 and L27	EPO	OR	ON	2005/09/27 14:25
L29	325	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	JPO	OR	ON	2005/09/27 14:26

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L30	11314	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	JPO	OR	ON	2005/09/27 14:26
L31	101	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	JPO	OR	ON	2005/09/27 14:26
L32	11599	L29 or L30 or L31	JPO	OR	ON	2005/09/27 14:26
L33	103	L32 same (test\$3 or evaluat\$3)	JPO	OR	ON	2005/09/27 14:26
L34	500897	medium or media or disk or disc or HDD or HDA or DASD	JPO	OR	ON	2005/09/27 14:26
(L35)	16	L33 and L34	JPO	OR	ON	2005/09/27 14:26
L36	1083	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	DERWENT	OR	ON	2005/09/27 14:27
L37	21175	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	DERWENT	OR	ON	2005/09/27 14:27
L38	348	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	DERWENT	OR	ON	2005/09/27 14:27
L39	22087	L36 or L37 or L38	DERWENT	OR	ON	2005/09/27 14:26
L40	264	L39 same (test\$3 or evaluat\$3)	DERWENT	OR	ON	2005/09/27 14:27
L41	932000	medium or media or disk or disc or HDD or HDA or DASD	DERWENT	OR	ON	2005/09/27 14:28
(L42)	32	L40 and L41	DERWENT	OR	ON	2005/09/27 14:26

Searched circled L #13

L43	17	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	IBM_TDB	OR	ON	2005/09/27 14:27
L44	218	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	IBM_TDB	OR	ON	2005/09/27 14:27
L45	5	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	IBM_TDB	OR	ON	2005/09/27 14:27
L46	230	L43 or L44 or L45	IBM_TDB	OR	ON	2005/09/27 14:27
L47	23	L46 same (test\$3 or evaluat\$3)	IBM_TDB	OR	ON	2005/09/27 14:28
L48	10394	medium or media or disk or disc or HDD or HDA or DASD	IBM_TDB	OR	ON	2005/09/27 14:28
L49	4	L47 and L48	IBM_TDB	OR	ON	2005/09/27 14:28

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EAST BRS Search #3

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2440	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	USPAT	OR	ON	2005/09/27 19:16
L2	87583	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	USPAT	OR	ON	2005/09/27 19:16
L3	571	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	USPAT	OR	ON	2005/09/27 19:16
L4	88716	L1 or L2 or L3	USPAT	OR	ON	2005/09/27 18:20
L5	168713	stroke	USPAT	OR	ON	2005/09/27 18:47
L6	1981	L4 same L5	USPAT	OR	ON	2005/09/27 18:20
L7	11815	actuator same stroke	USPAT	OR	ON	2005/09/27 18:20
L8	12138	L6 or L7	USPAT	OR	ON	2005/09/27 18:20
L9	79851	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	USPAT	OR	ON	2005/09/27 19:18
L10	411	L8 and L9	USPAT	OR	ON	2005/09/27 18:38
L11	0	"6801377".uref.	USPAT	OR	ON	2005/09/27 18:38
L12	0	Zhu.in. and Yang.in. and Zhang.in. and Cha.in.	USPAT	OR	ON	2005/09/27 18:39
L13	1	Zhu.in. and Yang.in. and Zhang.in. and Cha.in.	US-PGPUB	OR	ON	2005/09/27 18:45
L14	904	L4 NEAR10 stroke	USPAT	OR	ON	2005/09/27 18:47
L15	6689	actuator NEAR10 stroke	USPAT	OR	ON	2005/09/27 18:48
L16	2973	L15 and L4	USPAT	OR	ON	2005/09/27 18:48
L17	147	L16 and L9	USPAT	OR	ON	2005/09/27 18:49
L18	2236	L16 not L14	USPAT	OR	ON	2005/09/27 18:50
L19	101	L18 and L9	USPAT	OR	ON	2005/09/27 18:50
L20	601087	displacement or deviation or deflection	USPAT	OR	ON	2005/09/27 19:19

L21	2696	L4 NEAR10 L20	USPAT	OR	ON	2005/09/27 19:02
<u>L22</u>	259	L21 and L9	USPAT	OR	ON	2005/09/27 19:03
L23	1295	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	US-PGPUB	OR	ON	2005/09/27 19:27
L24	30073	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	US-PGPUB	OR	ON	2005/09/27 19:35
L25	420	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	US-PGPUB	OR	ON	2005/09/27 19:35
L26	30607	L23 or L24 or L25	US-PGPUB	OR	ON	2005/09/27 19:17
L27	797	L26 NEAR10 stroke	US-PGPUB	OR	ON	2005/09/27 19:17
L28	2047	actuator NEAR10 stroke	US-PGPUB	OR	ON	2005/09/27 19:17
L29	1378	L26 and L28	US-PGPUB	OR	ON	2005/09/27 19:18
L30	686	L29 not L27	US-PGPUB	OR	ON	2005/09/27 19:18
L31	56715	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	US-PGPUB	OR	ON	2005/09/27 19:18
L32	47	L30 and L31	US-PGPUB	OR	ON	2005/09/27 19:18
L33	163548	displacement or deviation or deflection	US-PGPUB	OR	ON	2005/09/27 19:37
L34	1172	L26 NEAR10 L33	US-PGPUB	OR	ON	2005/09/27 19:20
L35	135	L31 and L34	US-PGPUB	OR	ON	2005/09/27 19:20
<u>L36</u>	180	L32 or L35	US-PGPUB	OR	ON	2005/09/27 19:20
L37	140	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	EPO	OR	ON	2005/09/27 19:38

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L38	3761	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	EPO	OR	ON	2005/09/27 19:39
L39	46	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	EPO	OR	ON	2005/09/27 19:39
L40	3880	L37 or L38 or L39	EPO	OR	ON	2005/09/27 19:36
L41	26	L40 NEAR10 stroke	EPO	OR	ON	2005/09/27 19:36
L42	239	actuator NEAR10 stroke	EPO	OR	ON	2005/09/27 19:40
L43	42	L40 and L42	EPO	OR	ON	2005/09/27 19:37
L44	18	L43 not L41	EPO	OR	ON	2005/09/27 19:37
L45	124756	medium or media or disk or disc or HDD or HDA or DASD	EPO	OR	ON	2005/09/27 19:39
L46	0	L44 and L45	EPO	OR	ON	2005/09/27 19:37
L47	42700	displacement or deviation or deflection	EPO	OR	ON	2005/09/27 19:40
L48	121	L40 NEAR10 L47	EPO	OR	ON	2005/09/27 19:38
L49	6	L48 and L45	EPO	OR	ON	2005/09/27 19:38
L50	325	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	JPO	OR	ON	2005/09/27 19:42
L51	11314	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	JPO	OR	ON	2005/09/27 19:42

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L52	101	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	JPO	OR	ON	2005/09/27 19:43
L53	11599	L50 or L51 or L52	JPO	OR	ON	2005/09/27 19:39
L54	500897	medium or media or disk or disc or HDD or HDA or DASD	JPO	OR	ON	2005/09/27 19:43
L55	69	L53 NEAR10 stroke	JPO	OR	ON	2005/09/27 19:39
L56	813	actuator NEAR10 stroke	JPO	OR	ON	2005/09/27 19:40
L57	89	L53 and L56	JPO	OR	ON	2005/09/27 19:40
L58	35	L57 not L55	JPO	OR	ON	2005/09/27 19:40
L59	4	L58 and L54	JPO	OR	ON	2005/09/27 19:40
L60	168722	displac\$1ment or deviation or deflection	JPO	OR	ON	2005/09/27 19:44
L61	833	L53 NEAR10 L60	JPO	OR	ON	2005/09/27 19:41
L62	46	L54 and L61	JPO	OR	ON	2005/09/27 19:41
L63	1083	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	DERWENT	OR	ON	2005/09/27 19:52
L64	21175	(actuator\$1 or positioner\$1 or positioning or (displac\$1ment ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	DERWENT	OR	ON	2005/09/27 19:52
L65	348	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	DERWENT	OR	ON	2005/09/27 19:52
L66	22087	L63 or L64 or L65	DERWENT	OR	ON	2005/09/27 19:43
L67	130	L66 NEAR10 stroke	DERWENT	OR	ON	2005/09/27 19:43
L68	1360	actuator NEAR10 stroke	DERWENT	OR	ON	2005/09/27 19:43
L69	1250	L68 not L67	DERWENT	OR	ON	2005/09/27 19:43
L70	932000	medium or media or disk or disc or HDD or HDA or DASD	DERWENT	OR	ON	2005/09/27 19:52
L71	103	L69 and L70	DERWENT	OR	ON	2005/09/27 19:43
L72	260588	displac\$1ment or deviation or deflection	DERWENT	OR	ON	2005/09/27 19:53

L73	758	L66 NEAR10 L72	DERWENT	OR	ON	2005/09/27 19:45
L74	75	L73 and L70	DERWENT	OR	ON	2005/09/27 19:45
L75	178	L71 or L74	DERWENT	OR	ON	2005/09/27 19:45
L76	17	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	IBM_TDB	OR	ON	2005/09/27 19:52
L77	218	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	IBM_TDB	OR	ON	2005/09/27 19:52
L78	5	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	IBM_TDB	OR	ON	2005/09/27 19:52
L79	230	L76 or L77 or L78	IBM_TDB	OR	ON	2005/09/27 19:52
L80	10394	medium or media or disk or disc or HDD or HDA or DASD	IBM_TDB	OR	ON	2005/09/27 19:52
L81	83	L79 and L80	IBM_TDB	OR	ON	2005/09/27 19:53
L82	0	L79 NEAR10 stroke	IBM_TDB	OR	ON	2005/09/27 19:53
L83	17	actuator NEAR10 stroke	IBM_TDB	OR	ON	2005/09/27 19:53
L84	1	L81 and L83	IBM_TDB	OR	ON	2005/09/27 19:53
L85	3089	displacement or deviation or deflection	IBM_TDB	OR	ON	2005/09/27 19:54
L86	2	L79 NEAR10 L85	IBM_TDB	OR	ON	2005/09/27 19:54
L87	3	L84 or L86	IBM_TDB	OR	ON	2005/09/27 19:54

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```
(microactuator <or> milliactuator <or>
picoactuator <or> subactuator or
(piggyback ADJ actuator) <or>
(electrostatic ADJ actuator)) <and>
(stroke <or> displacement <or> deviation
<or> deflection) <and> magnetic <and>
```

 (medium <or> media
<or> disk <or> disc)

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